

Navy Case No. 82,627
Preliminary Amendment in reply to Notice of Non-Compliant Amendment dated May 7, 2004

This listing of claims will replace prior listings of claims in the application:

Listing of claims

Claim 1 (Cancelled).

Claim 2 (Cancelled).

Claim 3 (Cancelled).

Claim 4 (Cancelled).

Claim 5 (Previously Amended). In a method of casting a ductile alloy having a base metal by heating thereof to produce a molten stream that is atomized into a spray of droplets directed onto a moving substrate surface; the improvement residing in: selecting a corrosion resisting material as a component of the alloy undergoing said heating; exclusively limiting said alloy to the base metal and the corrosion resisting material; and utilizing an inert cover gas to atomize the molten stream into said spray of droplets for deposit onto said surface to increase in strength the ductile alloy.

Claim 6 (Previously Amended). The method as defined in claim 5, wherein said base metal is nickel, the corrosion resisting material is chromium and the inert cover gas is nitrogen.

Claim 7 (Previously Amended). In a method of producing an alloy formed exclusively from a base metal and a corrosion resisting component deposited onto a moving substrate surface, the improvement residing in: limiting the alloy exclusively to said base metal and the corrosion-resisting component; and forming the alloy by spray casting under exposure to an inert cover gas for said deposit onto said surface to thereby exhibit high strength while maintaining ductility.

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Claim 8 (Previously Amended). The method as defined in claim 7, wherein said base metal is nickel, said corrosion-resisting component is chromium and said inert cover gas is nitrogen.

Claim 9 (Currently Amended) In a method of coating a surface with a ductile alloy; the improvement residing in: casting onto said surface a molten stream exclusively limited to: a corrosion-resisting material constituting between 48% and 52% of the ductile alloy undergoing heating during said casting for increase in strength thereof; and a base metal; and selecting an inert cover gas ~~selected~~ to atomize the molten stream into a spray of droplets for deposit onto the surface thereby effecting said increase in strength of the ductile alloy during said casting from a yield strength of less than 145 ksi.